SATISH SCIENCE ACADEMY
DHANORI PUNE - 411015

SAINIK SCHOOL PAPER 1
ENTRANCE EXAM - SAINIK SCHOOL (CLASS 6)

Time Allowed: 2 hours and 30 minutes

Maximum Marks : 300

General Instructions:

- This question paper booklet contains FOUR sections.
- Section "A" Language contains 25 questions of 2 marks each.
- Section 'B' Mathematics contains 50 questions of 3 marks each.
- Section "C" General Knowledge.
- Section 'D" Intelligence contains 25 questions each of 2 marks each.
- In all, the paper consists of 125 questions for a total of 300 marks. Answer all questions.

Section A - Language

1) First aid was given to the wounded man. Which word is a collective noun? **[2]**
   a) First aid b) Given
   c) Was d) Man

2) Pick a countable noun.
   Where are my books?I kept it on my study table. **[2]**
   a) Where b) My
   c) Kept d) Books

3) _____ he said is completely wrong. **[2]**
   a) Where b) How
   c) What d) Why

4) Choose the correct possessive form to complete the following sentence:
   The _____ mansion was redecorated. **[2]**
   a) Governors' b) Governors's
   c) Governor d) Governor's

5) How many interjections are there in the given below? Count and choose the correct option.
   This, Hurray, Now, Oops, Wow, Yum, Them, Used, Oh no, Please **[2]**
   a) 7 b) 5
   c) 4 d) 6

6) **Choose the correct option for tense:**
   The mother _____ food for us. **[2]**
   a) Cooks b) Cook
   c) Cooking d) Cooked

7) Examples of Adverb of Degree are: **[2]**
   a) Rather, after b) Within, soon
   c) Much, often d) Partly, greatly

8) He usually gets good marks in Maths. (find the adverb) **[2]**
   a) Usually b) Marks
   c) Grades d) Good

9) Arrange the words in the correct meaningful sentence:
   Are / eating / birds / small / wagtails / insect **[2]**
   a) Eating small insect are wagtails birds.
   b) Wagtails are small insect eating birds.
   c) Small eating insect birds are wagtails.
   d) Birds are wagtails small eating insect.

10) Choose the appropriate tense:
    Rema _____ with my sister yesterday. **[2]**
    a) Playing b) Play
    c) Played d) Will playing

11) **Choose the correct present continuous or perfect continuous form of the verb to complete the sentence:**
    Bharti _____ yoga classes these days. **[2]**
    a) Has attending b) Is attending
    c) Has been attending d) Attending

12) **Identify the correct tense for the given sentence:**
    Where have you lost your purse? **[2]**
    a) Present Continuous
    b) Present Perfect Continuous
    c) Past Perfect
    d) Present Perfect

13) The word**Baneful** means **[2]**
    a) Benefit b) Profit
    c) Loss d) Evil

14) Select the word that conveys the similar meaning as the word given in capital letters:
    NOSTALGIA **[2]**
    a) Home sickness b) Cure - all
    c) Sea sickness d) Aroma

15) He has rejoined office after a week and looks rundown . Meaning of the underlined phrase: **[2]**
    a) Weak and tired b) Active and energetic
    c) Cheerful and bubbly d) Busy and preoccupied

16) Find the correct opposite of**Tiny**. **[2]**
    a) Large b) Minute
    c) Tinge d) Small

17) Choose the correct pronoun:
    Have you ever spoken to the people _____ live next door? **[2]**
    a) When b) Which
    c) Where d) Who

18) Choose the correct article for the given sentence:
    This road leads to _____ Agra. **[2]**
    a) An b) The
    c) A d) None of these

19) **Choose the correct adjective for the given sentence:**
    We visited the museum, where we saw _____ artifacts. **[2]**
    a) A lot of b) Ancient
    c) A room filled with d) John

20) We should not spend money _____ luxuries. **[2]**

a) With b) For
c) On d) At

Question No. 21 to 25 are based on the given text. Read the text carefully and answer the questions:

About three hundred and fifty years there lived in India an Emperor called Shah Jahan. He had a beautiful and intelligent wife, whom he loved very much. Her name was Mumtaz Mahal; its shortened form, Taj Mahal, means 'pride of the palace'. In the year 1630, this beloved wife of the emperor died. The emperor decided, out of love for his wife, to build her the most beautiful tomb that had ever been seen.

Shah Jahan gathered the best artists and architects from India, Turkey, Persia and Arabia to design the building. It took more than 20000 men working over a period of 18 years to build the Taj Mahal, perhaps the most beautiful building in India.

21) Which of the following is the work of an**architect**? **[2]**

a) To build a palace
b) To design a building
c) To advise the king
d) To supervise cooking of meals

22) People consider Taj Mahal as **[2]**

a) The most beautiful building in India
b) A large river
c) A memory of an emperor
d) A very tall building

23) Which one of the statements agrees with the paragraph?
i. Shah Jahan wanted to build a palace for himself
ii. Artists and Architects from India asked Shah Jahan to give them work
iii. 'Pride of the palace' means 'Shah Jahan'
iv. Shah Jahan decided to build a beautiful tomb for his beloved wife

[2]

a) Option (iii) b) Option (iv)
c) Option (i) d) Option (ii)

24) Which one of the following pairs is not associated with buildings? **[2]**

a) Architects and engineers
b) Teachers and doctors
c) Painters and carpenters
d) Masons and plumbers

25) Taj Mahal was built
i. Out of love for Mumtaz Mahal
ii. Because Mumtaz Mahal was intelligent
iii. To let the world know that Mumtaz Mahal was beautiful
iv. To protect Mumtaz Mahal from his enemies

[2]

a) Option (iv) b) Option (ii)
c) Option (iii) d) Option (i)

Section B - Mathematics

26) The Hindu - Arabic numeral for MCV is _____. **[3]**

a) 1105 b) 1015
c) 1150 d) 1115

27) The Roman numeral for 1296 is: **[3]**

a) DDCCXCVI b) MCCCDXCVI
c) MCCLXXXXVI d) MCCXCVI

28) Identify the type of angle in the figure given below:

[3]

a) None of these.
b) Right angle.
c) More than right angle.
d) Less than right angle.

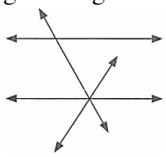
29) A triangle with all sides of the same length is called an _____ Triangle. **[3]**

a) Isosceles
b) Equilateral
c) Obtuse angled triangle
d) Scalene

30) If an angle is equal to$90°$ then angle is known as **[3]**

a) Reflex angle b) Acute angle
c) Straight angle d) Right angle

31) How many pairs of intersecting lines are there in the given figure?



[3]

a) 0 b) 4
c) 2 d) 5

32) How many angles does a rectangle have? **[3]**

a) Three b) Four
c) Six d) Five

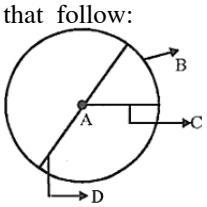
33) Which of the following pair of angles are complementary? **[3]**

a) 40^o and 60^o b) 30^o and 60^o
c) 60^o and 140^o d) 60^o and 120^o

34) How many diameters does a circle have? **[3]**

a) 2 b) 3
c) Infinite d) 1

35) Look at the picture given below and answer the question that follow:



What is B in the given picture? **[3]**

a) Diameter b) Radius
c) Circumference d) Centre

36) Find the difference: 6095 - 3929 **[3]**

a) 2266 b) 2166
c) 2156 d) 2176

37) A train of 24 carriages, each of 60 meters length, when an engine also of 60 meters length is running at a speed of 60 kmph. In what time will the train cross a bridge 1.5 km long? **[3]**

a) $1\frac{1}{2}$ mins b) 3 mins
c) $3\frac{1}{2}$ mins d) 7 mins

38) _____ is the smallest prime number which is even. **[3]**

a) 1 b) 4
c) 2 d) 3

39) Subtract the fraction: $\frac{12}{9} - \frac{7}{9}$ **[3]**
a) $\frac{19}{18}$ b) $\frac{4}{9}$
c) $\frac{5}{0}$ d) $\frac{5}{9}$

40) Which fraction does not belong to the group:
$\frac{18}{45}$, $\frac{10}{15}$, $\frac{12}{30}$, $\frac{14}{35}$, $\frac{24}{60}$ **[3]**
a) $\frac{18}{45}$ b) $\frac{12}{30}$
c) $\frac{14}{35}$ d) $\frac{10}{15}$

41) If the numerator is greater than denominator then the fraction is called _____. **[3]**
a) Improper b) Proper
c) Unit d) Mixed

42) Two numbers are in the ratio 2 : 3. If 9 is added to each, they will be in the ratio 3 : 4 the numbers are **[3]**
a) 18, 27 b) 12, 28
c) 10, 15 d) 8, 12

43) If 2x = 3y = 4z, then x : y : z is **[3]**
a) 4 : 2 : 5 b) 6 : 4 : 3
c) 5 : 4 : 2 d) 2 : 3 : 4

44) Nihal bought an umbrella marked at ₹80 is sold at gain ₹12. What is the selling price and profit %? **[3]**
a) ₹95,15% b) ₹92,25%
c) ₹95,20% d) ₹92,15%

45) A person buys a book for ₹85 and sells it for ₹98.60. Find his profit per cent. **[3]**
a) 12 b) 18
c) 8 d) 16

46) Calculate following: 145 + (120÷ 20 + 6) ? **[3]**
a) 150 b) 157
c) 175 d) 169

47) Evaluate the question using the rules of BODMAS.
9 + 5 × 3 - 9 × 3 - 4 × - 2 **[3]**
a) 10 b) 6
c) 5 d) 8

48) Mean of a set of observations is the value which **[3]**
a) Occurs most frequently
b) Is a representative of whole group
c) Divides observations into two equal parts
d) Is the sum of observations.

49) If $\frac{1}{8}$ of $\frac{2}{3}$ of $\frac{4}{5}$ of a number is 12 then 30 percent of the number will be **[3]**
a) 54 b) 48
c) 64 d) 42

50) Which one of the following is equivalent of $\frac{6}{20}$? **[3]**
a) 30% b) 26%
c) 6% d) 20%

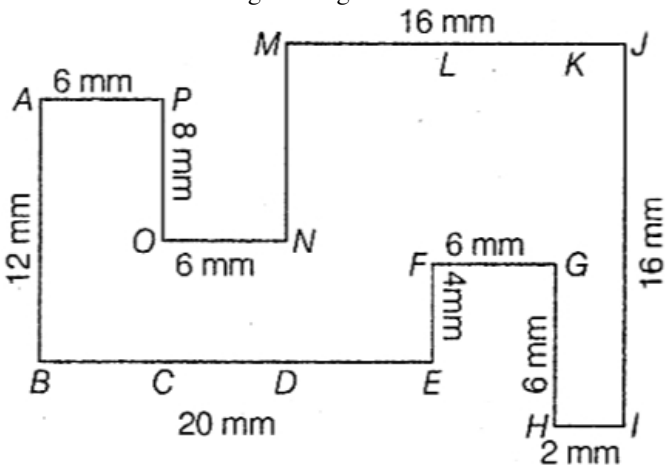
51) A beam 9 m long, 40 cm wide and 20 cm deep is made up of iron which weighs 50 kg per cubic metre. The weight of the beam is **[3]**
a) 45 kg b) 32 kg
c) 36 kg d) 42 kg

52) The perimeter of a rectangular sheet is 100 cm. If the length is 35 cm, find its breadth. **[3]**
a) 25 cm b) 10 cm
c) 15 cm d) 20 cm

53) Which of them is a prime number? **[3]**
a) 54 b) 25
c) 23 d) 27

54) The product of 0.5× 0.05 × 0.005 is equal to **[3]**
a) 0.0125 b) 0.125
c) 0.000125 d) 0.00125

55) Find the area of the given figure.



[3]
a) 240 mm^2 b) 280 mm^2
c) 440 mm^2 d) 300 mm^2

56) The perimeter of the floor of a room is 18 m. What is the area of the walls of the room, if the height of the room is 3 m? **[3]**
a) 42 m^2 b) 21 m^2
c) 54 m^2 d) 108 m^2

57) ₹2500 is divided into two parts such that if one part be put out at 5% simple interest and the other at 6%, the yearly annual income may be ₹140. How much was lent at 5%? **[3]**
a) ₹1000 b) ₹1500
c) ₹1300 d) ₹1200

58) Find the SI on ₹12000 for 8 yr 4 months at 3% per annum? **[3]**
a) ₹15000 b) ₹2000
c) ₹3000 d) ₹4000

59) Which number has a 6 in the ten's place? **[3]**
a) 6753 b) 9863
c) 9674 d) 8742

60) A prime number has two factors 1 and the number itself. Which one of the following is correct about the prime factors of greatest number of two digit. **[3]**
a) 3× 3 × 11
b) 3× 3 × 11 × 21
c) 3× 11 × 12
d) 3× 3 × 11 × 11

61) Find the greatest common factor (GCF) of the numbers given below.
(24 and 18) **[3]**
a) 8 b) 6
c) 4 d) 2

62) The number 64320 is divisible by _____. **[3]**
a) All of these b) 2
c) 5 d) 3

63) Tarru starts jumping from number 106. If Tarru jumps 4 steps at a time. On which number did the Tarru after 10 jump. **[3]**

a) 150 b) 156
c) 136 d) 146

64) The number between 800 and 900 divisible completely by 13 and 17 is [3]
a) 888 b) 884
c) 878 d) 868

65) The vulgar fraction of 0.231 can be expressed as _____. [3]
a) $\frac{231}{1000}$ b) $\frac{229}{990}$
c) $\frac{231}{999}$ d) $\frac{229}{900}$

66) Jiggy is setting up some beakers. He wants to find the beaker which can hold least water. Can you find that for Jiggy?

[3]
a) Figure (B) b) Figure (C)
c) Figure (A) d) Figure (D)

67) What temperature is shown on the thermometer?

[3]
a) 42 degree b) 40 degree
c) 39 degree d) 50 degree

68) Sampurna Kranti Express departures from Patna at 5 : 50 pm and arrives New Delhi at 8 : 15 am of the next day. What is the total time of the journey? [3]
a) 12 h 25 min b) 12 h 35 min
c) 14 h 25 min d) 14 h 35 min

69) To convert metres into centimetres, we multiply the number of metres by _____. [3]
a) 100 b) 1000
c) 1 d) 10

70) Which one of the following options will replace* in $\frac{3}{7} = \frac{21}{\star}$? [3]
a) 49 b) 3
c) 30 d) 5

71) **Statement A:** C = 40.
Statement B: M > 100. [3]

a) Statement B is false.
b) Both statements are true.
c) Only statement B is true.
d) Statement A is true.

72) Find the GCF of 15 and 6: [3]
a) 6 b) 3
c) 5 d) 2

73) An increase in the speed of car by 10 km per hour saves 1 hour in a journey of 200 km, find the initial speed of the car. [3]
a) 32 km/hr b) 40 km/hr
c) 44 km/hr d) 27 km/hr

74) A man loses 10% by selling an article for ₹270. Find the cost price of the article. [3]
a) ₹350 b) ₹420
c) ₹400 d) ₹300

75) Ashok secured average of 75 marks in 6 subjects. If the average of marks in 5 subjects is 74, how many marks did he secure in the 6th subject? [3]
a) 66 b) 78
c) 74 d) 80

Section C - General Knowledge

76) Which of the following is the national song of India? [2]
a) Sare Jahan se Accha b) Hum Honge Kamyab
c) Jana Gana Mana d) Vande Mataram

77) Who is the founder of the holy city**Amritsar**? [2]
a) Guru Angad b) Guru Tegh Bahadur
c) Guru Ram Das d) Guru Hargobind

78) Namda, the centuries - old traditional craft, is associated with which state/UT? [2]
a) Jammu and Kashmir b) Assam
c) Uttarakhand d) Arunachal Pradesh

79) Indian Army day is celebrated on which date every year? [2]
a) 15th January b) 26th March
c) 15th August d) 26th January

80) The Motto of the Indian Navy is [2]

a) Sham No Varuna
b) Valour and Wisdom
c) Sarvatra Sarvottama Suraksha
d) Nabha : Sparsa Diptam

81) Indian Air Force was established on which date? [2]
a) 8 October, 1932 b) 8 November, 1930
c) 13 March, 1922 d) 26 January, 1950

82) Part of an embryo that provides nutrients for the germination of the seed is: [2]
a) Cotyledons b) Radicle
c) Hypocotyl d) Epicotyl

83) Which part of the nose prevents dust particles to enter inside the body? [2]
a) Wax b) Water
c) Fat d) Hair

84) The Davis Cup is associated with the game - [2]
a) Lawn tennis b) Football
c) Hockey d) Cricket

85) Which is the pathway by which food enters the mouth and moves out through anus after digestion? [2]
a) Small Intestine b) Alimentary Canal
c) Large Intestine d) Food pipe

86) Which of the following diseases is caused due to the deficiency of vitamin D? [2]
a) Anaemia b) Goitre
c) Rickets d) Beriberi

87) In which field is the Arjun Award given? [2]
a) Sports b) Music
c) Medical d) Science

88) To avoid injuries during earthquakes put heavy objects and breakable items in: [2]

a) Upper cabinets
b) Lower cabinets
c) Lower cabinets with locks
d) Middle of cabinet with lock

89) Which one of the following is a process in which water changes into vapours in atmosphere? [2]
a) Evaporation b) Sublimation
c) Transpiration d) Condensation

90) Chandrayaan - 3 mission was launched by India on: [2]
a) 14th July, 2023 b) 21st June, 2023
c) 15th August, 2022 d) 2nd January, 2023

91) This palace, located in Gwalior was built by the Maharaja of Gwalior Jayajirao Scindia. It has Italian and Tuscan style of architecture and is not a museum. [2]
a) Umaid Bhawan Palace b) Lake Palace
c) Hawa Mahal Palace d) Jai Vilas Palace

92) Why do fossil fuels generate more power than wood for use in machines? [2]
a) Fossil fuels are drier
b) Fossil fuels are easier to transport
c) Fossil fuels are easy to be stored
d) Fossil fuels have a higher concentration of carbon and hydrogen

93) Houseboats on the Dal Lake in Kashmir, that are used by the tourists are known as: [2]
a) Shikar b) Jal Mahal
c) Floating house d) Shikara

94) Telephone was invented by: [2]
a) Thomas Alva Edison
b) Marie Curie
c) Alexander Graham Bell
d) Benjamin Franklin

95) Who is known as**The Iron Man of India**? [2]
a) Vallabhbhai Patel b) Jawaharlal Nehru
c) A.P.J. Abdul Kalam d) Manmohan Singh

96) Bhagat Singh was executed in which of the following cases? [2]
a) Kakori Case
b) Lahore Conspiracy Case
c) Assembly Bomb Case
d) Chauri Chaura Case

97) Who is the first Education Minister of India? [2]
a) Ramesh Pokhriyal b) Abul Kalam Azad
c) Dharmendra Pradhan d) Dr. Rajendra Prasad

98) Vice President serves as the chairman of: [2]
a) Vidhan Sabha b) Lok Sabha
c) Vidhan Parishad d) Rajya Sabha

99) We get voting right at the age of _____. [2]
a) 24 years b) 16 years
c) 21 years d) 18 years

100) Stainless steel is a/an? [2]
a) Element b) NOTA
c) Compound d) Alloy

Section D - Intelligence

101) Identify the correct number which can take place the missing number.
169 : ? : : 196 : 13 [2]
a) 11 b) 12
c) 13 d) 15

102) Identify the correct set which can take place the missing set.
? : D n n l j h u s f D : : A b c d e f g h i J : B a d c f e h g j l [2]
a) D m n k p r s u s D b) N m m l j u s u f E
c) E m o k k g v r e E d) C o m m i i t t e E

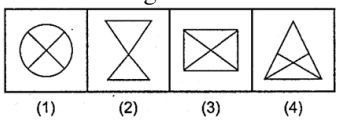
103) Identify the correct number which can take place the missing number.
? : 8 : : 8 : 1 [2]
a) 40 b) 56
c) 110 d) 64

104) Choose which number completes the second pair in the same way as the first pair.
$\frac{Z}{26}$: $\frac{Y}{25}$: : $\frac{T}{20}$: ? [2]
a) $\frac{S}{19}$ b) $\frac{S}{20}$
c) $\frac{U}{21}$ d) $\frac{Q}{17}$

105) Number in each pair is connected in the same way. Identify the missing number.
11 : 137 : : 19 : ? [2]
a) 997 b) 891
c) 377 d) 313

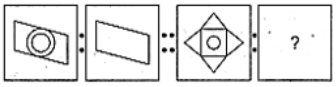
106) There is a certain relationship between the pair of figures given on either side of : :. Identify the relationship of the first pair and find the missing term of the second pair.
ADE: FGJ :: KNO :? [2]
a) TPR b) RQP
c) PQR d) PQT

107) Select the figure which is different from others.



[2]
a) Figure (2) b) Figure (1)
c) Figure (3) d) Figure (4)

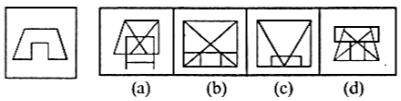
108) Select the figure that shows a similar relationship.



[2]

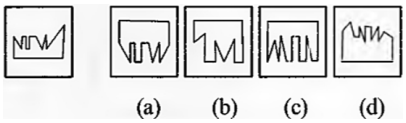
a)
b)
c)
d)

109) Select the figure in which the question figure is hidden/embedded.



[2]
a) Figure (b) b) Figure (a)
c) Figure (c) d) Figure (d)

110) Find the figure that completes the geometrical figure.



[2]

a) Figure (a) b) Figure (b)
c) Figure (c) d) Figure (d)

111) Ten friends go to see a movie. Unfortunately, they get different seats in different rows. There are 15 seats in each row. In total, there are 12 rows in the hall. The first row is marked as A and the last row is marked as L. When looked at from the front, George's seat is C 10. Daniel's seat is 2 rows behind George's. What is Daniel's seat's number? [2]

a) F 10 b) F 12
c) E 10 d) E 12

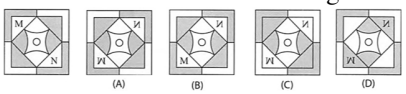
112) In the given following question choose the missing number to complete the series.
10, 18, 28, 40, 54, 70, ? [2]

a) 86 b) 85
c) 88 d) 87

113) Which of the following will be the middle digit of the middle number formed after adding 1 to each of the given numbers and then arranged in ascending order?
642 378 894 546 692 [2]

a) 4 b) 2
c) 5 d) 3

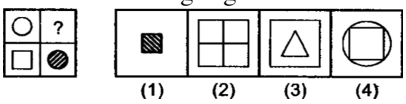
114) Select the correct water image of the given figure.



[2]

a) Figure (C) b) Figure (B)
c) Figure (D) d) Figure (A)

115) Find the missing figure.



[2]

a) Figure (2) b) Figure (1)
c) Figure (4) d) Figure (3)

116) Choose the word which is different from the rest.
Cement, Paste, Oil, Glue [2]

a) Oil b) Glue
c) Paste d) Cement

117) Choose the word which is different from the rest.
Fawn, Mermaid, Minerva, Sphinx [2]

a) Minerva b) Fawn
c) Mermaid d) Sphinx

118) If in a certain code, JUNE is written as KVNE, then how will HOME be written in that code? [2]

a) IPME b) IPNF
c) EMOH d) IOME

119) In a certain code, 5998 is written as 4887, then how will 4682 be written in the same code? [2]

a) 3571 b) 5593
c) 5791 d) 5571

120) Some letters are given which are numbered 1, 2, 3, 4, 5 and 6. Find the combination of numbers so that the letters are arranged accordingly to form a meaningful English word.

T	K	P	C	O	E
1	2	3	4	5	6

[2]

a) 2, 3, 1, 5, 4, 6 b) 3, 2, 1, 4, 6, 5
c) 3, 5, 4, 2, 6, 1 d) 3, 4, 2, 1, 5, 6

121) If in a certain language, LATE is coded as 8&4 $ and HIRE is code as 7*3 $
, then how will HAIL be coded in the same language? [2]

a) &7*8 b) 7&*8
c) 7&8* d) 7*&8

122) Amit started walking positioning his back towards the sun. After some time, he turned left, then turned right and towards the left again. In which direction is he going now? [2]

a) North or West b) South or West
c) East or West d) North or South

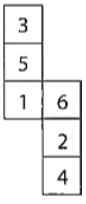
123) Looking at a picture of a boy, Hemant said, "his mother is the wife of my father's son. Brothers and sisters, I have none." At whose picture was Hemant looking? [2]

a) His son b) His cousin
c) His uncle d) His nephew

124) Which of the following diagrams indicates the best relation amongst Iron, Lead and Nitrogen? [2]

a)
b)
c)
d)

125) Which of the following numbers lies on the face opposite to the face having number 5, when the given figure is folded to form a cube?



[2]

a) 6 b) 2
c) 4 d) 3